ADVANCED ENGINEER EQUIPMENT ELECTRICAL SYSTEM TECHNICIAN COURSE INFORMATION:

PREREQUISITES: Corporal through Staff Sergeant, graduate of M03UAA2 - Basic Engineer Equipment Electrical Systems Technician course with 18 months experience in MOS 1142 or M0311D2 – Basic Refrigeration and Air Conditioning Technician Course with 18 months experience in MOS 1161, and a minimum of 12 months remaining in current enlistment upon course completion.

Certification of current sustainment for T&R event 1100SAFE-1001 (Conduct Risk Management).

Recommend completion of:
MarineNet MCIZ286HZZ - Fundamentals of Digital Logic
MarineNet MCIZ1142CZ - Solid State Devices
MarineNet MCIZ1335DZ - Fundamentals of Diesel Engines
MarineNet EGS000001A - Equipment Grounding Systems
MarineNet M00MTH0000 - Mathematics for Marines
MarineNet MCIZ287BZZ - Introduction to Test Equipment
MarineNet MCIZ1161AZ - Fundamentals of Refrigeration

MOS 1142 and 1161 Lance Corporal with 18 months experience and a minimum of one year remaining in current enlistment may attend with a waiver by Director of Instruction, MCES.

PURPOSE: To provide designated advanced level training to Engineer Equipment Electrical Systems Technicians (MOS 1142) and Refrigeration and Air Conditioning Technician (MOS 1161) in compliance with the training continuum required by the Operating Forces.

SCOPE: This course is designed to impart advanced knowledge, skills and abilities to diagnose malfunctions of more complex engineer equipment electrical systems at the organizational and intermediate levels of field maintenance. The course consists of instruction in the interaction between electrical and hydraulic systems of Material Handling Equipment (MHE), using the Caterpillar Electronic Tool (CAT E TOOL) along with reprogramming of fault codes and parameters on controls of tactical generator sets, electrical control of refrigerant systems and heater elements of Environmental Control Units (ECU), and diagnosing malfunctions to the electrical systems of Tactical Water Purification Systems (TWPS) and Containerized Batch Laundry (CBL) units. Diagnosis and repair of electrical starters and alternators is also covered along with safety programs, managing equipment maintenance, and conducting unit training.

During working hours, contact the Academic Chief at COMM: (910) 440-7346 / DSN: 758-7346 or the Course Programmer at COMM: (910) 440-7340 / DSN: 758-7340. After working hours, contact the AOOD at COMM:(910) 440-7275 / DSN: 758-7275.